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APPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,660		08/19/2003	James William Otter	60246-229	5263
26096	7590	09/21/2005	EXAMINER		INER
	-	KEY & OLDS, P.C.	DUONG, THO V		
400 WEST MAPLE ROAD SUITE 350				ART UNIT	PAPER NUMBER
BIRMING	-	II 48009	3743		
				DATE MAILED: 00/21/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Atidi No	Annii					
	Application No.	Applicant(s)					
Office Action Comments	10/643,660	OTTER, JAMES WILLIAM					
Office Action Summary	Examiner	Art Unit					
	Tho v. Duong	3743					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on <u>06 J</u>	<u>uly 2005</u> .						
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>27-43</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>27-43</u> is/are rejected.	☑ Claim(s) <u>27-43</u> is/are rejected.						
-	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) ☐ The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

DETAILED ACTION

Receipt of applicant's amendment filed 7/6/2005 is acknowledged. Claims 27-43 are pending.

Response to Arguments

Applicant's arguments, see applicant's Remark, filed 7/6/2005, with respect to the rejection(s) of claim(s) 27-43 under Boah et al. have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Boah and May (US 4,933,046).

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 30,31,38 and 39 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claimed subject matter of the heat exchanger component further including a roller assembly or a polymer heater, is not supported by the original disclosure.

Applicant discloses in the specification and figures that the heat exchanger component (14) and the roller assembly (40) and the polymer heater (44) are separated features. The heat exchanger component (14) does not include the roller assembly and the polymer heater, which belong to an apparatus of applying a polymer film on to the heat exchanger component.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 27-29,32-37 and 40-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boah (US 4,953,511) in view of May (US 4,933,046). Boah discloses (figures 1,5-6 and column 2, lines 37-43) a heat exchanger component comprising a plurality of metal condensing flow passages (62) having a substantially flat metal surface (61) and a film (53) of polymer such as polyolefin. With regarding claims 33 and 41, Boah discloses (column 4, lines 34-43) that the thickness of the coating layer (53) is less than 6.0 mils, which is within the claimed range. As regarding claims 27-31 and 36-39, the method of forming the device is not germane to the issue of patentability of the device itself. "Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985). In this instant application, the heat exchanger component in the product by process claim is the same as or obvious from the heat exchanger component (62) of Boah, in which a film of polymer is directly adhering to the metal surface. The steps of using roller, heating and melting pellets to form film may be different from

Art Unit: 3743

Boah's process, but the final product of the prior art is the same with the product in the productby-process claim.

Boah substantially discloses all of applicant's claimed invention as discussed above except for the limitation that the film is made of polybutylene terephthalate or polyethylene terephthalate or polyetherimide or polyethersulfone or polysufone or polyimide. May discloses (figures 3-4 and column 1, line 64- column 2, line 11) a condenser that utilizes polyester film as a condensing surface for a purpose of enhancing the thermal conductivity of the condenser due to hydrophilic nature of polyester that the condensed water would fall right off from the condensing surface of the condenser. Regarding claims 28 and 36, given the fact that the materials are claimed as members of a Markush group (original claim 16), which all alternatives have a common property or activity (MPEP Annex B f(i)(ii) and (iii)), it appears that the hydrophilic effect of the heat exchanger surface is equally achieved with the use of any material in the Markush group. Furthermore, applicant has not disclosed any criticality or any particular purpose for having the claimed materials or polyester. Therefore, the use of polybutylene terephthalate or polyethylene terephthalate or polyetherimide or polyethersulfone or polysufone or polyimide is deemed to be a design consideration, which fails to patentably distinguish over the prior art of Boah in view of May.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho v. Duong whose telephone number is 571-272-4793. The examiner can normally be reached on M-F (first Friday off).

Art Unit: 3743

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennet can be reached on 571-272-4791. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tho v Duong

Primary Examiner Art Unit 3743

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September 16, 2005